ASL
Digital compression load cell

Application

- Weighbridges.
- Weighing tanks, silos,...

General definition

The ASL load cell is a compression load cell based on single column technology particularly suitable for weighing applications on weighbridges.

It is made of stainless steel and is compact, and sealed under prolonged immersion (IP 68).

Conformity

- Test certificate issued by a notified body in accordance with OIML recommendation R60.

Options

Ex version for use in gaseous and dusty zones according to new directive 94/09/EC.

CE type certificate n°: LCIE 09 ATEX 3051 X.

Marking according to EN60079-0: 2009

- For - 40 °C ≤ ta ≤ + 40 °C:

  II2G Ex d IIC T6 Gb

  II2D Ex tb IIIC T80°C Db

- For - 40 °C ≤ ta ≤ + 60 °C:

  II2G Ex d IIC T5 Gb

  II2D Ex tb IIIC T100°C Db

Description

The measurement principle on which the ASL load cell is based is the deformation of beams subjected to a compression force.

It uses strain gauges arranged to form a Wheatstone bridge for conversion of a force into an electrical signal.

The ASL load cell is specially designed to be insensitive to eccentric loads, while remaining low-dimensioned.

Cabling

V sup. +	*Red*	**ASL**
V sup. –	*Blue*	
NET A	*White*	
NET B	*Yellow*	
Shielding	*braid*	

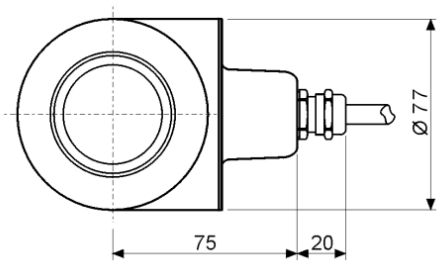
Available models

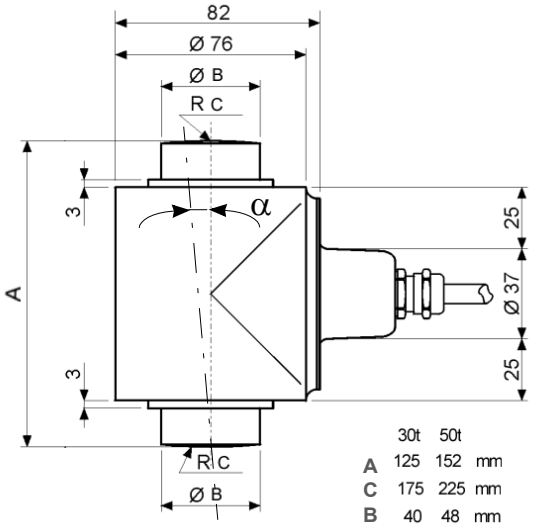
- ASL 30 t: 3 500 d (C3.5)
- ASL 30 t Ex*: 3 500 d - C3.5
- ASL 50 t: 3 000 d (C3)
- ASL 50 t Ex*: 3 000 d - C3

** Enhanced safety junction box essential.*

Technical data

Dimensions:





α : **Allowed maximum angle of inclination: 5º.**

- Mass ..... 3.3 kg appr

Metrological characteristics

Accuracy class*			C3.5	C3
Maximal capacity	E_{max}	t	30	50
Minimum dead load	E_{min}/E_{max}	%	3,3	4
Verification interval ratio	$Y=E_{max}/v_{min}$		5217	5200

* The C3 and C3.5 accuracy classes are conform with international recommendation OIML R60.

Electrical characteristics

- Power tension ..... 24V DC
- Shielded cable with black PVC jacket:
  - Ø outdoors ..... 6.6 mm
  - Length ..... 15 m
  - Minimum radius of curvature ..... 40 mm

Environmental characteristics

- Temperature ranges
  - Compensated ..... - 10 ºC / + 40 ºC
  - Operating ..... - 40 ºC / + 80 ºC
  - Storage ..... - 40 ºC / + 90 ºC
- Temperature ranges - Version Ex
  - Compensated ..... - 10 ºC / + 40 ºC
  - Operating ..... - 40 ºC / + 60 ºC
  - Storage ..... - 40 ºC / + 90 ºC
- Sealing according to CEI 60529 ..... IP 68

Mechanical characteristics

- Load limit ..... 150 % Emax
- Breaking load ..... 300 % Emax

WWW.PRECIAMOLEN.COM

Your specialist

PRECIA-MOLEN Headquarters & Factory
BP 106 - 07000 Privas - France
Tel. 33 (0) 475 664 600
Fax 33 (0) 475 664 330
E-MAIL webmaster@preciamolen.com

RCS: 386 620 165 RCS Aubenas

PRECIA MOLEN™
WORLDWIDE WEIGHING